



Shri Vile Parle Kelavani Mandal's

DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING

(Autonomous College Affiliated to the University of Mumbai)

NAAC Accredited with "A" Grade (CGPA : 3.18)

**Academic Year (2022-23)****Year: 3 Semester: V****Program: B. Tech. (IT)****Subject: Development Frameworks****Date: Jan 3, 2023****Max. Marks: 75****Time: 10:30 am to 1:30 pm****Duration: 3 Hours****REGULAR EXAMINATION**

Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover page of the Answer Book, which is provided for their use.

- (1) This question paper contains two pages.
- (2) **All Questions are Compulsory.**
- (3) All questions carry equal marks.
- (4) **Answer to each new question is to be started on a fresh page.**
- (5) **Figures in the brackets on the right indicate full marks.**
- (6) **Assume suitable data wherever required but justify it.**
- (7) Draw the neat, labelled diagrams, wherever necessary.

Question No.		Max.Marks
Q1 (a)	Discuss the disadvantages of Agile Model of software developments OR Discuss the advantages of using Microservices	[05] [05]
Q1 (b)	Consider a scenario where you are working on a migration project where requirements will be the same only platform or languages may vary / change. Which software development model should be used. Discuss the same in detail.	[10]
Q2 (a)	List agile manifesto and discuss the various principles. OR Discuss the Five events in Scrum?	[10] [10]
Q2 (b)	Discuss whether loose or tight coupling should be preferred while programming.	[05]
Q3 (a)	Discuss the benefits of using serverless architecture.	[10]
Q3 (b)	Analyze Micro Frontend Architecture should share a backend or not? OR Differentiate between message driven and event driven architecture.	[05] [05]
Q4 (a)	Explain what Dependency Injection is and in how many ways Dependency Injection can be done. Discuss with example? OR Explain Event handling in Spring with suitable example of custom event.	[10] [10]
Q4 (b)	List the different component of reactive manifesto and discuss them.	[05]



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Q5 (a)	Discuss the Open Close Principle (OCP) with example.	[10]
Q5 (b)	Explain what are the different components of a Spring application? OR Discuss why is Spring preferred over the other frameworks?	[05] [05]